Performance Data Sheet

AEA2415AAB

General Information

Model	AEA2415AAB	**Refrigerant**	R-12
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	723	658	579	483	370	236	78.8
	Watts	273	269	260	245	224	195	157
	Amps	5.38	5.39	5.38	5.34	5.28	5.19	5.07
	Lb/h	11.6	10.6	9.29	7.75	5.93	3.77	1.26
-35	Btu/h	872	813	741	653	548	424	278
	Watts	293	292	287	277	261	238	207
	Amps	5.44	5.45	5.45	5.42	5.37	5.30	5.20
	Lb/h	14.0	13.1	11.9	10.5	8.81	6.81	4.47
-30	Btu/h	1030	980	913	833	736	621	486
	Watts	312	314	313	308	297	280	255
	Amps	5.50	5.52	5.53	5.51	5.48	5.42	5.33
	Lb/h	16.6	15.7	14.7	13.4	11.8	9.98	7.80
-25	Btu/h	1210	1160	1100	1020	934	828	702
	Watts	331	336	338	336	330	318	300
	Amps	5.57	5.60	5.61	5.61	5.59	5.54	5.48
	Lb/h	19.4	18.6	17.7	16.5	15.0	13.3	11.3
-20	Btu/h	1400	1350	1300	1230	1140	1050	929
	Watts	351	358	362	364	362	355	342
	Amps	5.64	5.68	5.71	5.72	5.71	5.68	5.63
	Lb/h	22.5	21.8	20.9	19.8	18.4	16.8	15.0
-15	Btu/h	1610	1560	1510	1450	1370	1280	1170
	Watts	371	380	387	392	393	391	383
	Amps	5.73	5.78	5.81	5.83	5.84	5.83	5.80
	Lb/h	25.9	25.2	24.3	23.3	22.1	20.6	18.8
-10	Btu/h	1830	1790	1740	1680	1610	1520	1420
	Watts	393	403	412	419	424	425	422
	Amps	5.83	5.88	5.93	5.97	5.99	6.00	5.99
	Lb/h	29.5	28.9	28.1	27.1	26.0	24.6	23.0
-5	Btu/h	2080	2040	1990	1930	1870	1790	1690
	Watts	417	427	437	446	454	459	459
	Amps	5.94	6.01	6.06	6.11	6.15	6.18	6.19
	Lb/h	33.6	32.9	32.2	31.3	30.2	28.9	27.4

0	Btu/h	2350	2310	2260	2210	2150	2070	1980
	Watts	442	453	464	475	484	492	496
	Amps	6.07	6.14	6.21	6.28	6.33	6.38	6.41
	Lb/h	37.9	37.3	36.6	35.7	34.7	33.5	32.1
5	Btu/h	2640	2600	2550	2500	2440	2370	2290
	Watts	471	481	492	504	516	526	533
	Amps	6.21	6.30	6.38	6.46	6.54	6.60	6.65
	Lb/h	42.7	42.1	41.4	40.6	39.6	38.5	37.1
10	Btu/h	2950	2910	2870	2820	2760	2700	2620
	Watts	502	511	522	535	548	560	570
	Amps	6.37	6.47	6.57	6.66	6.76	6.84	6.92
	Lb/h	47.9	47.3	46.6	45.8	44.9	43.8	42.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.700185E+03	5.085185E+02	5.597337E+00	4.370695E+01
C2	6.300975E+01	1.048857E+01	2.496869E-02	1.028571E+00
C3	-7.351581E+00	-3.677534E+00	1.603533E-03	-1.198983E-01
C4	5.886124E-01	1.267676E-01	2.318387E-04	9.865397E-03
C5	-1.738276E-01	-1.194650E-01	-1.485620E-04	-2.764184E-03
C6	6.390111E-02	4.892212E-02	8.414617E-05	1.042853E-03
C7	2.296695E-03	5.567805E-04	2.255839E-06	4.034713E-05
C8	-1.410805E-03	-9.472118E-04	1.253853E-06	-2.274346E-05
C9	1.065283E-03	6.941868E-04	2.148066E-06	1.691509E-05
C10	-3.430264E-04	-1.662405E-04	-3.857976E-07	-5.571491E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature